

ABSTRACT

A pipeline video decoder and decompression system handles a plurality of separately encoded bit streams arranged as a single serial bit stream of digital bits and having separately encoded pairs of control codes and corresponding data carried in the serial bit stream. The pipeline system employs a plurality of interconnected stages to decode and decompress the single bit stream, including a start code detector. When in a search mode, the start code detector searches for a specific start code corresponding to one of multiple compression standards. The start code detector responding to the single serial bit stream generates control tokens and data tokens. A respective one of the tokens includes a plurality of data words. Each data word has an extension bit which indicates a presence of additional words therein. The data words are thereby unlimited in number. A token decode circuit positioned in certain of the stages recognizes certain of the tokens as control tokens pertinent to that stage and passes unrecognized control tokens to a succeeding stage. A reconfigurable decode and parser processing means positioned in certain of the stages is responsive to a recognized control token and reconfigures a particular stage to handle an identified data token. Methods relating to the decoder and decompression system include processing steps relating thereto

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Adrian P. Wise

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§ Application No.: Not Yet Known

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§ Art Unit: 2783 (anticipated)

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For: MULTISTANDARD VIDEO
DECODER AND DECOMPRESSION
SYSTEM FOR PROCESSING

§

§ Examiner: Follansbee, J. (anticipated)

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ENCODED BIT STREAMS INCLUDING A §

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§ Attorney Docket No.:

RECONFIGURABLE PROCESSING

§

94100415(EP)USC1X1C1D4 PDDD

STAGE AND METHODS RELATING

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THERETO

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COMMUNICATION - SUBMISSION OF FORMAL DRAWINGS

BOX PATENT APPLICATION

Assistant Commissioner of Patents

Washington DC 20231

Sir:

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Transmitted herewith are 169 formal drawings on 124 sheets.

In the event a fee is due, the Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment to Deposit Account No. 04-1175.

Respectfully submitted,

DISCOVISION ASSOCIATES



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Date: 1/30/01

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